

DEPARTMENT OF TRANSPORTATION

DIVISION OF ENGINEERING SERVICES

Office of Structural Materials

Quality Assurance and Source Inspection



Bay Area Branch
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Contract #: 04-0120F4Cty: SF/ALA Rte: 80 PM: 13.2/13.9File #: 69.28**WELDING INSPECTION REPORT****Resident Engineer:** Pursell, Gary**Address:** 333 Burma Road**City:** Oakland, CA 94607**Report No:** WIR-011958**Date Inspected:** 24-Jan-2010**Project Name:** SAS Superstructure**OSM Arrival Time:** 700**Prime Contractor:** American Bridge/Fluor Enterprises, a JV**OSM Departure Time:** 1900**Contractor:** Zhenhua Port Machinery Company, Ltd (ZPMC), Changxing Island **Location:** Shanghai, China**CWI Name:** You Qi Guo.**CWI Present:** Yes No**Inspected CWI report:** Yes No N/A**Rod Oven in Use:** Yes No N/A**Electrode to specification:** Yes No N/A**Weld Procedures Followed:** Yes No N/A**Qualified Welders:** Yes No N/A**Verified Joint Fit-up:** Yes No N/A**Approved Drawings:** Yes No N/A**Approved WPS:** Yes No N/A**Delayed / Cancelled:** Yes No N/A**Bridge No:** 34-0006**Component:** Tower**Summary of Items Observed:**

On this day CALTRANS OSM Quality Assurance (QA) Inspector Shailesh Gaikwad was present during the times noted above for observations relative to the fabrication of the SAS Superstructure being performed by Zhenhua Port Machinery Company (ZPMC) at Changxing Island in Shanghai, China. QA observed and/or found the following:

BAY 10:

This QA Inspector performed Magnetic Particle Testing (MT) of approximately 15% and randomly Visual Testing of the area previously tested and accepted by ZPMC Quality Control personnel. This QA Inspector generated a TL- 6028 (MT) report for this date. The member is identified North Tower Lift 2 Grating Brackets. The weld designations reviewed are as follows.

GGSA-31PLAN-53M-1-(1~6)-N, GGSA-31PLAN-53M-2-(1~6)-N,

GGSA-31PLAN-53M-5-(1~6)-N, GGSA-33PLAN-53M-2-(1~6)-N,

GGSA-33PLAN-53M-6-(1~6)-N, GGSA-33PLAN-53M-7-(1~6)-N,

GGSA-35PLAN-56M-3-(1~6)-N,

NDT Notification No: 005122

This QA Inspector observed the following work in progress:

BAY 11

WELDING INSPECTION REPORT

(Continued Page 2 of 2)

This QA Inspector observed ZPMC qualified welding personnel identified as 040699. Perform Submerged Arc Welding (SAW) Strut Plate. Joint identified as ND1-SA4-68-131M-6-1B, ND1-SA4-68-131M-7-1B, ND1-SA4-68-131M-8-1B, ZPMC QC Identified as Yu Dong Ping. The welding parameters as measured using QC's calibrated instrument appeared to be in general compliance with WPS-B-T-3221-TC-U5-S-1.

This QA Inspector observed ZPMC qualified welding personnel identified as 040690. Perform Shielded Metal Arc Welding (SMAW) on East Tower Lift 4 Back fill plate welding from inside near Diaphragm 143M Bottom. Joint identified as ESTL4-2K/L-45, ZPMC QC Identified as Xu Jin Long. The welding parameters as measured using QC's calibrated instrument appeared to be in general compliance with WPS-B-T-3213-B-U2a-1.

Repair Welding:

This QA Inspector observed ZPMC qualified welding personnel identified as 040668. Perform Shielded Metal Arc Welding (SMAW) on East Tower Lift 4 143M Bottom Plate Diaphragm corner A/E Flg Plate, DP4-39. ZPMC QC Identified as Lilin. With Critical welding repair report. CWR-T-CWR544. The welding parameters as measured using QC's calibrated instrument appeared to be in general compliance with WPS-485-SMAW-1G(1F)Repair-1.

BAY 10

This QA Inspector observed ZPMC qualified welding personnel identified as 201825. Perform Flux Core Arc Welding (FCAW) on North Tower Lift 4 Back fill plate welding from inside near Diaphragm 143M Top. Joint identified as NSTL4-3K/L-88, ZPMC QC Identified as Sun Tian Liang. The welding parameters as measured using QC's calibrated instrument appeared to be in general compliance with WPS-B-T-4332-TC-P4-F.

This QA Inspector observed ZPMC qualified welding personnel identified as 052493. Perform Shielded Metal Arc Welding (SMAW) on North Tower Lift 4 Back fill plate welding from inside near Diaphragm 139M Top. Joint identified as NSTL4-3J/L-88, ZPMC QC Identified as Sun Tian Liang. The welding parameters as measured using QC's calibrated instrument appeared to be in general compliance with WPS-B-T-3212-B-U2a-2.

Unless otherwise noted, all work observed on this date appeared to be in general compliance with the applicable contract documents.

Summary of Conversations:

Only general conversation was held between QA and QC concerning this project.

Comments

This report is for the purpose of determining conformance with the contract documents and is not for the purpose of making repair or fit for purpose recommendations. Should you require recommendations concerning repairs or remedial efforts please contact Skyler Guest phone: 15000422360, who represents the Office of Structural Materials for your project.

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| Inspected By: | Gaikwad,Shailesh | Quality Assurance Inspector |
| Reviewed By: | Clifford,William | QA Reviewer |
